Cordova 项目依赖软件安装 macOS10.13

需求:在 macOS 下开发 Cordova/ionic+Cordova 项目, 从 mac 新机器到项目上线、 开发小白或不懂开发的人员都能根据本教程配置项目(即从 0 到 1)。

安装列表:

Xcode:Apple 开发者官方 IDE.(los 必备)

Android SDK:android 开发必备.(Android 必备)

Homebrew:macOS 下包管理工具.(非必须)

nvm:node 管理工具.(非必须)

npm:nodejs 包管理工具,管理 node 的所有第三方插件,与 nodejs 同生共死不离不弃缺一不可.(必须)

node: Node.js 是一个基于 Chrome V8 引擎的 JavaScript 运行环境。 Node.js 使用了一个事件驱动、非阻塞式 I/O 的模型,使其轻量又高效。安装 node 后就自带了对应的 npm,并且一个版本的 node 就会自动安装一个对应的 npm.(必须)

Cordova:混合开发的一个工具.(必须)

ionic3/ionic2:也是混合开发的工具,一般配合 Cordova 使用.(必须)

Visual Studio Code/sublime text:JS 编辑器或 IDE 至少要有一个吧.(必须)

Javascript 开发路线: Angular+ionic+Cordova、VUE+Cordova 等,看项目需求. 其它:待补充,混合开发/跨平台,VUE、Angular 等未安装.

一般情况下,使用 brew 安装/卸载软件,但由于有些程序镜像是在国外服务器,所以安装软件时,需要翻墙(违法的事情不要做哦),也可安装 npm、nvm、node 但容易出现莫名其妙的 bug,并且安装的包是最新版本,需要额外其它配置; npm/nvm 用来管理 node.

无论使用 ionic+Cordova 还是仅仅使用 Cordova,都会使用到 nodejs,完整的 安装流程应该是:

如果使用安装包安装,只需下载 nodeis 即可官网:

https://nodejs.org/en/download/

如果使用其它方式安装,则推荐流程为:

安装 macOS 包管理工具 homebrew(可省略安装 homebrew);

使用 homebrew 安装 npm/nvm 包;

使用 npm/nvm 安装 node.

在 ionic 项目中,如果使用安装包安装,则没必要安装 Homebrew; nvm 在 node 版本一致时,也没必要安装; npm 管理 js 社区,必须安装; node 必须安装。软件安装:

前提:mac 联网

Xcode 安装:新机器是没有 Xcode IDE 的,但绝对会有 App Store 和 iTunes Store。

App Store 安装

第一步



第三步,找到 xcode,并点击



Xcode Apple

第四步,点击安装或更新,等待安装即可 (若提示 apple id 登录,就登录)



更新 ▼

下载安装包安装(dmg 或 pkg)

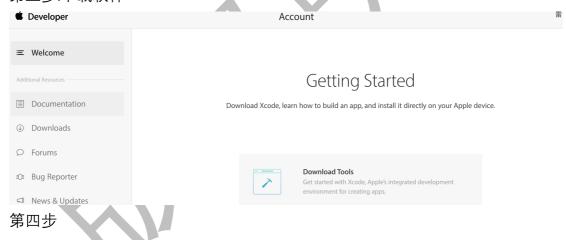
第一步:浏览器中输入" https://developer.apple.com/", 然后回车键



第二步:找到" Account" 选项卡,输入 apple id 账号和密码



第三步:下载软件



Downloads

Get the latest beta releases of Xcode, macOS, iOS, watchOS, tvOS, and more.



第五步

下载完成后,双击 dmg 文件即可安装,一直点击,直到完成.

终端命令行安装:Apple 为了安全性,建议从可信任渠道安装,如 App Store 或官

网下载,避免第三方重编译病毒等。如果确实想使用终端命令来安装 Xcode(前提是需要先 gcc),可使用 homebrew 来安装 brew install xcode 但安全性无法保证,并且每次 Xcode 更新时,需要在 Library/Homebrew/os/mac/xcode.rb

OS::Mac::Xcode.latest_version

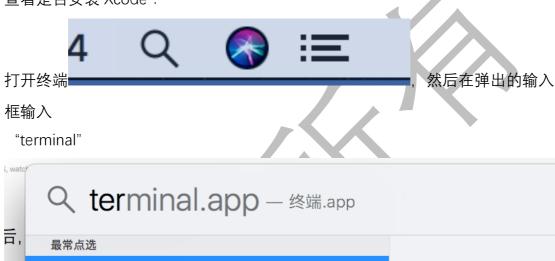
OS::Mac::CLT.latest_version

OS::Mac::Xcode.detect_version_from_clang_version

在 Library/Homebrew/os/mac.rb

OS::Mac::STANDARD_COMPILERS。

查看是否安装 Xcode:



然后回车键打开终端,输入 xcode-select -p, 如果出现

~ xcode-select -p
/Applications/Xcode.app/Contents/Developer

即已安装

Commond Line Tools 安装:

在 https://developer.apple.com/或者

终端.app

https://developer.apple.com/download/more/登录后,点击"DownLoads",进入新页面后,往下拖到底,找到

Don't see what you're looking for?

See more downloads

点击 "See more downloads" 后,在新的页面下载你的Xcode 和对应的Command Line Tools, 比如 Xcode 9.4 和 Command Line Tools(macOS 10.13) for Xcode 9.4,版本要一致。不一致,请重新下载。

终端命令行安装:xcode-select -install 即可

Homebrew 官网: https://brew.sh/, 不想使用,可直接看下一步安装:将以下命令粘贴至终端:/usr/bin/ruby -e "\$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)",在输入密码后即可安装成功!

```
→ ~ /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"
=>> This script will install:
/usr/local/share/doc/homebrew
/usr/local/share/man/man1/brew.1
/usr/local/share/zsh/site-functions/_brew
/usr/local/etc/bash_completion.d/brew
/usr/local/Homebrew
=>> The following new directories will be created:
/usr/local/Cellar
/usr/local/Frameworks
/usr/local/Frameworks
/usr/local/share/zsh
/usr/local/share/zsh
/usr/local/share/zsh/site-functions

Press RETURN to continue or any other key to abort
```

```
==> Installation successful!
==> Homebrew has enabled anonymous aggregate user behaviour analytics.
Read the analytics documentation (and how to opt-out) here:
  https://docs.brew.sh/Analytics.html
==> Next steps:
- Run `brew help` to get started
- Further documentation:
    https://docs.brew.sh
[→ ~ brew help
Example usage:
  brew search [TEXT|/REGEX/]
  brew info [FORMULA...]
  brew install FORMULA...
  brew update
  brew upgrade [FORMULA...]
  brew uninstall FORMULA...
  brew list [FORMULA...]
Troubleshooting:
  brew config
  brew doctor
  brew install --verbose --debug FORMULA
Contributing:
  brew create [URL [--no-fetch]]
  brew edit [FORMULA...]
Further help:
  brew commands
  brew help [COMMAND]
  man brew
  https://docs.brew.sh
[→ ~ brew -v
Homebrew 1.6.6
Homebrew/homebrew-core (git revision 1e98; last commit 2018-06-04)
          个 wget(类似 curl,ruby 语言)
[→ ~ brew install wget
Updating Homebrew...
==> Installing dependencies for wget: gettext, libunistring, libidn2, openssl
==> Installing wget dependency: gettext
==> Downloading https://homebrew.bintray.com/bottles/gettext-0.19.8.1.high_sierra.bottle.tar.gz
    卸载:将以下命令粘贴至终端: /usr/bin/ruby -e "$(curl -fsSL
```

https://raw.githubusercontent.com/Homebrew/install/master/uninstall)", 在输入

密码后即可卸载成功!

```
🔷 ~ /usr/bin/ruby -e "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/master/uninstall)"
Warning: This script will remove:
/Users/xingleizhen/Library/Caches/Homebrew/
/Users/xingleizhen/Library/Logs/Homebrew/
/usr/local/Cellar/
 /usr/local/Homebrew/
 /usr/local/Homebrew/.github/
/usr/local/Homebrew/.gitignore
/usr/local/Homebrew/.travis.yml
 /usr/local/Homebrew/.tavdopts
/usr/local/Homebrew/CONTRIBUTING.md
/usr/local/Homebrew/LICENSE.txt
 /usr/local/Homebrew/Library/
 /usr/local/Homebrew/Library/Homebrew/test/.bundle/
/usr/local/Homebrew/README.md
 /usr/local/Homebrew/bin/brew
 /usr/local/Homebrew/completions/
 /usr/local/Homebrew/docs/
/usr/local/Homebrew/manpages,
/usr/local/Homebrew/manpages/
/usr/local/bin/brew -> /usr/local/Homebrew/bin/brew
/usr/local/etc/bash_completion.d/brew -> /usr/local/Homebrew/completions/bash/brew
/usr/local/share/doc/homebrew -> /usr/local/Homebrew/docs
/usr/local/share/man/man1/brew-cask.1 -> /usr/local/Homebrew/manpages/brew-cask.1
/usr/local/share/man/man1/brew-1 -> /usr/local/Homebrew/manpages/brew-cask.1
/usr/local/share/zsh/site-functions/_brew -> /usr/local/Homebrew/completions/zsh/_brew
/usr/local/share/zsh/site-functions/_brew_cask -> /usr/local/Homebrew/completions/zsh/_brew_cask
/usr/local/yar/nomebrew/locks/undate
 /usr/local/var/homebrew/locks/update
Are you sure you want to uninstall Homebrew? This will remove your installed packages! [y/N] y

==> Removing Homebrew installation...

==> Removing empty directories...

==> /usr/bin/sudo /usr/bin/find /usr/local/Cellar /usr/local/Homebrew /usr/local/Frameworks /usr/local/bin /usr/local/etc /usr/loc
 al/include /usr/local/lib /usr/local/opt /usr/local/sbin /usr/local/share /usr/local/var -name .DS_Store
==> /usr/bin/sudo /usr/bin/find /usr/local/Cellar /usr/local/Homebrew /usr/local/Frameworks /usr/local/bin /usr/local/etc /usr/local/lib /usr/local/opt /usr/local/sbin /usr/local/share /usr/local/var -depth -type d -empty -exec rmdir {};
 ==> Homebrew uninstalled!
The following possible Homebrew files were not deleted:
/usr/local/bin/
 /usr/local/.com.apple.installer.keep
 /usr/local/libexec/
/usr/local/include/
 /usr/local/sbin/
 /usr/local/remotedesktop/
 /usr/local/remo
/usr/local/etc/
/usr/local/var/
 /usr/local/Watchdata/
 /usr/local/lib/
  /usr/local/share
 You may wish to remove them yourself.
zsh: command not found: brew
```

nvm 安装 https://github.com/creationix/nvm(不想使用,可跳过这一步) 如果要使用 nvm 来管理 node,需要先安装 nvm 即先卸载/删除 node&npm ; 终端安装:

输入 curl -o-

https://raw.githubusercontent.com/creationix/nvm/v0.33.11/install.sh | bash 或 wget -qO- https://raw.githubusercontent.com/creationix/nvm/v0.33.11/install.sh | bash

```
-- curl -o- https://raw.githubusercontent.com/creationix/nvm/v0.33.11/install.sh | bash
  % Total
             % Received % Xferd Average Speed
                                                 Time
                                                         Time
                                                                  Time Current
                                 Dload Upload
                                                 Total
                                                         Spent
                                                                  Left Speed
                                            0 0:00:05 0:00:05 --:--
                       0
100 12819 100 12819
                              0
                                  2175
=> Downloading nvm from git to '/Users/xingleizhen/.nvm'
=> Cloning into '/Users/xingleizhen/.nvm'...
remote: Counting objects: 267, done.
remote: Compressing objects: 100% (242/242), done.
remote: Total 267 (delta 31), reused 86 (delta 15), pack-reused 0
Receiving objects: 100% (267/267), 119.46 KiB | 178.00 KiB/s, done.
Resolving deltas: 100% (31/31), done.
=> Compressing and cleaning up git repository
=> Appending nvm source string to /Users/xingleizhen/.bashrc
=> Appending bash_completion source string to /Users/xingleizhen/.bashrc
=> Close and reopen your terminal to start using nvm or run the following to use it now:
export NVM_DIR="$HOME/.nvm" [ -s "$NVM_DIR/nvm.sh"    # This loads nvm  
[ -s "$NVM_DIR/bash_completion" ] && \. "$NVM_DIR/bash_completion" # This loads nvm bash_completion
紧接着,输入 export NVM_DIR="$HOME/.nvm"
```

```
[-s "$NVM DIR/nvm.sh"] && \. "$NVM DIR/nvm.sh" # This loads nvm, 完成以
后,输入 nvm
→ ~ export NVM_DIR="$HOME/.nvm"
[[ -s "$NVM_DIR/nvm.sh" ] && \. "$NVM_DIR/nvm.sh" # This loads nvm
Node Version Manager
Note: <version> refers to any version-like string nvm understands. This include:
安装成功.最后安装你想要的 nodeis
nvm install 8.0.0
nvm use 8.0
nvm run 6.10.3 app.js
nvm exec 4.8.3 node app.js
o node 4.8.3
nvm alias default 8.1.0
nvm alias default node
brew 安装
[→ ~ brew search nvm
==> Searching local taps...
                                              nvm
==> Searching taps on GitHub...
==> Searching blacklisted, migrated and deleted formulae...
Updating Homebrew...
npm&nodejs 安装
通过下载安装包安装:
  浏览器输入: https://nodejs.org/en/(官网)或者 http://nodejs.cn/(中文网),选
```

浏览器输入: https://nodejs.org/en/ (官网)或者 http://nodejs.cn/ (中文网),选择稳定版 LTS 或最新版下载。然后双击下载的文件即安装 npm 和



node-v10.1.0.pkg

nodejs



通过下载 macOS 压缩包安装:



下载:

在浏览器下载或者在终端输入 curl -0

https://nodejs.org/dist/v8.11.2/node-v8.11.2-darwin-x64.tar.gz 或者 wget https://nodejs.org/dist/v8.11.2/node-v8.11.2-darwin-x64.tar.gz,然后解压该文件,命令行形式为 tar -xf node-v8.11.2-darwin-x64.tar.gz,在解压缩的文件下查看版本./node -v

Downloads cd node-v8.11.2-darwin-x64/bin
bin ./node -v
v8.11.2

下载完文件后,直接在终端输入以下命令 sudo tar -C /usr/local

```
--strip-components 1 -xzf node-v8.11.2-darwin-x64.tar.gz, 即可安装该文件

→ Downloads sudo tar -C /usr/local --strip-components 1 -xzf node-v8.11.2-darwin-x64.tar.gz

Password:
→ Downloads 1s -1 /usr/local/bin/node
-rwxr-xr-x 1 502 staff 35393920 5 16 03:07 /usr/local/bin/node

→ Downloads 1s -1 /usr/local/bin/npm

lrwxr-xr-x 1 502 staff 38 5 16 03:07 /usr/local/bin/npm -> ../lib/node_modules/npm/bin/npm-cli.js

→ Downloads npm -v
5.6.0

→ Downloads node -v
v8.11.2
```

通过 brew 安装

在安装了 Homebrew 后,在终端中输入 brew install node(安装)/brew upgrade node(升级),安装或升级.

```
[→ bin brew search node
==> Searching local taps.
leafnode
                      11node
                                            node-build
                                                                   node@6
                                                                                         nodebrew
libbitcoin-node
                      node
                                            node@4
                                                                   node@8
                                                                                         nodeenv
==> Searching taps on GitHub...
homebrew/cask/node-profiler
 ==> Searching blacklisted, migrated and deleted formulae...
bin brew install node
Updating Homebrew.
 ==> Downloading https://homebrew.bintray.com/bottles/node-10.3.0.high_sierra.bottle.tar.gz
Already downloaded: /Users/xingleizhen/Library/Caches/Homebrew/node-10.3.0.high_sierra.bottle.tar.gz
==> Pouring node-10.3.0.high_sierra.bottle.tar.gz
==> Caveats
Bash completion has been installed to:
  /usr/local/etc/bash_completion.d
/usr/local/Cellar/node/10.3.0: 6,793 files, 59.3MB
bin node -v
v10.3.0
[→ bin npm -v
6.1.0
```

完全卸载 node

通过 brew 安装的, 终端输入 brew uninstall node;

通过 node 官网 pkg 安装包的, sudo rm -rf

/usr/local/{bin/{node,npm},lib/node modules/npm,lib/node,share/man/*/node.*

},然后在终端中依次输入以下命令

sudo rm /usr/local/bin/npm

sudo rm -rf /usr/local/bin/node

sudo rm /usr/local/lib/dtrace/node.d

sudo rm /usr/local/share/man/man1/node.1

sudo rm /opt/local/bin/node

sudo rm /opt/local/include/node

sudo rm -rf /opt/local/lib/node modules

```
sudo rm -rf ~/.npm
sudo rm -rf ~/.node-gyp
find ~ -name "node"
- sudo rm -rf /usr/local/{bin/{node,npm},lib/node_modules/npm,lib/node,share/]
man/*/node.*}
zsh: no matches found: /usr/local/share/man/*/node.*

→ ~ sudo rm -rf /usr/local/bin/npm
[→ ~ sudo rm -rf /usr/local/bin/node
sudo rm -rf /usr/local/bin/_node/
sudo rm -rf /usr/local/lib/node_modules/
sudo rm /usr/local/lib/dtrace/node.d

→ ~ sudo rm -rf /usr/local/include/node/
sudo rm -rf /usr/local/share/man/man1/node.1
sudo rm /opt/local/bin/node
rm: /opt/local/bin/node: No such file or directory
→ ~ sudo rm /opt/local/include/node
rm: /opt/local/include/node: No such file or directory
→ ~ sudo rm -rf /opt/local/lib/node_modules
→ ~ sudo rm -rf ~/.npm
→ sudo rm -rf ~/.node-gyp
```

其它方式使用脚本卸载



README.md



uninstallNodejs.sh

在终端输入

```
    uninstallNodejs-master cd /Users/xingleizhen/Downloads/uninstallNodejs-master
    uninstallNodejs-master /Users/xingleizhen/Downloads/uninstallNodejs-master/uninstallNodejs.sh can't open /var/db/receipts/org.nodejs.node.pkg.bom: No such file or directory
    **** Can't open /var/db/receipts/org.nodejs.node.pkg.bom.
    uninstallNodejs-master chmod 777 uninstallNodejs.sh
```

Cordova 安装:需要先安装 Xcode&npm&node

在终端输入 sudo npm install -g cordova.创建项目请在另外一章查看

ionic 安装:需要先安装 Xcode&npm&node

终端输入 sudo npm install –g cordova ionic/npm install –g ionic 即可. 创建项目请在另外一章查看

sudo npm install -g cordova ionic

Visual Studio Code/sublime text 3:

VS Code 官网下载: https://code.visualstudio.com/(免费),双击 dmg 安装即可,无需额外配置.

Sublime text 3 官网下载: https://www.sublimetext.com/3(收费),双击 dmg 安装,需要下载依赖插件.

macOS 下 Android 环境搭建

JDK:

Mac 自带 jdk, 可食用 java -version 查看版本号

```
→ ~ java -version
java version "1.8.0_131"

Java(TM) SE Runtime Environment (build 1.8.0_131-b11)

Java HotSpot(TM) 64-Bit Server VM (build 25.131-b11, mixed mode)

→ ~
```

官方下载:http://www.oracle.com/technetwork/java/javase/downloads/index.html
brew 安装:

查询 java

brew search java

brew cask search java

查看版本信息

brew cask info java

安装 brew cask install java

IDE:

Android Studio:http://www.android-studio.org/

官网下载

至此, 所有软件安装完成!